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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/705,524 11/10/2003		Randy Neaman Siade	550,697	4856	
7590 11/26/2004			EXAMINER		
CHARLES J. FASSBENDER			HOLLINGTON, JERMELE M		
UNISYS CORPORATION M/S 1000			ART UNIT PAPER NUMB		
10850 VIA FRONTERA			2829		

DATE MAILED: 11/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicatio	n No.	Applicant(s)	-				
		10/705,524	4	SIADE ET AL.					
		Examiner		Art Unit					
		Jermele M.		2829					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IN THE PROPERTY OF THE	ON. FR 1.136(a). In no evel n. a reply within the statu eriod will apply and will statute, cause the appli	nt, however, may a reply be tory minimum of thirty (30) d expire SIX (6) MONTHS fro cation to become ABANDON	timely filed ays will be considered timely. In the mailing date of this commined to the comm	unication.				
Status									
1)⊠	Responsive to communication(s) filed on 3	10 November 20	03.						
,	☐ This action is FINAL . 2b) ☐ This action is non-final.								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 and 9-14 is/are rejected. 7) Claim(s) 8 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Applicat	ion Papers								
10)⊠	The specification is objected to by the Example The drawing(s) filed on 10 November 2003. Applicant may not request that any objection to Replacement drawing sheet(s) including the control The oath or declaration is objected to by the	is/are: a) ac the drawing(s) be prection is require	e held in abeyance. Sed if the drawing(s) is a	See 37 CFR 1.85(a). Objected to. See 37 CFR	1.121(d).				
Priority	under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Noti	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-946 rmation Disclosure Statement(s) (PTO-1449 or PTO/S er No(s)/Mail Date		4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		i2)				

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- DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered [see page 4, line 1 and page 43, line 17].

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: items 81-85 shown in Figs. 1, 9-11, and 14. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

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3. The disclosure is objected to because of the following informalities: there are numerous pages at the beginning sentences of the page and the end sentences of the page that are missing letters in some words.

Appropriate correction is required.

4. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

5. Claim 7 is objected to because of the following informalities: in line 2 of the claim the letter "e" is missing in "t st". Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-7 and 9-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Friedrich et al (6307388).

Regarding claim 1, Friedrich et al disclose [see Figs. 1A-2] an electromechanical system (electromechanical apparatus 10) for testing IC-chips (IC chips 12c); said system being comprised of: a total of N chips holding subassemblies (chip holding subassembly 12), where

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N is an integer greater than one and where each chip holding subassembly (12) has sockets (sockets 12b) for holding a group of IC-modules that include said IC-chips (12c); a moving means (actuator 16) for automatically moving the i-th one of said N chip holding subassemblies (12) from a load position in said system (10) to a test position in said system (10) and visa-versa where i changes with time in a sequence; a power supply means (power converter subassembly 13) which sends electrical power only to those IC -modules that are held by said chip holding subassemblies (12) at said test position; a temperature control means (temperature regulating subassembly 14), which contacts only those IC-modules that are held by said chip holding subassembly (12) at said test position.

Regarding claim 2, Friedrich et al disclose said moving means (16) moves said i-th chip holding subassembly (12) from said load position to said test position and visa-versa, while at least half of said N chip holding subassemblies (12) are at said test position.

Regarding claim 3, Friedrich et al disclose said sequence in which said moving means (16) moves said i-th chip holding subassembly (12) in a repetitive sequence.

Regarding claim 4, Friedrich et al disclose said sequence in which said moving means (16) moves said i-th chip holding subassembly (12) in a random sequence.

Regarding claim 5, Friedrich et al disclose a signal generator means [not shown but see col. 1, lines 61-67] which sends test signals to said IC-chips (12c) such that said test signals are shifted in time from one chip holding subassembly (12) to another at said test position.

Regarding claim 6, Friedrich et al disclose said signal generator means [not shown but see col.1, lines 61-67] sends test signals to said IC-chips (12c) such that said test signals are shifted in time from one chip holding subassemblies (12) to another at said test position.

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Regarding claim 7, Friedrich et al disclose said signal generator means [not shown but see col. 1, lines 61-67] begins to send said test signals to said IC-chips (12c) that are on the i-th chip holding subassembly (12), between the time that subassembly (12) is moved to said test position and the time that the next chip holding subassembly (12) in said sequence is moved to said test position.

Regarding claim 9, Friedrich et al disclose said signal generator means [not shown but see col.1, lines 61-67] sends test signals, which place said IC-chips (12c) in a predetermined state but do not functionally test said IC-chips (12c).

Regarding claim 10, Friedrich et al disclose said signal generator means [not shown but see col.1, lines 61-67] sends test signals, which functionally test said IC-chips (12c).

Regarding claim 11, Friedrich et al disclose said moving means (16) moves each of said chip holding subassembly (12) from said load position to said test position in a horizontal plane and said temperature control means (14) moves vertically in alignment with said test position.

Regarding claim 12, Friedrich et al disclose a chip handler means (pressing mechanism subassembly 15), which is time-shared by all of said chip holding subassemblies (12), for moving said IC-modules from one source container into the sockets (12b) on said i-th chip holding subassembly (12) at said load position, and from those sockets (12b) to at least one pass container and one fail container.

Regarding claim 13, Friedrich et al disclose each chip holding subassembly (12) is manually removable from said system (10) at said load position and manually returnable to said system at said load position.

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Regarding claim 14, Friedrich et al disclose the total number of chip holding subassemblies (12), which are held by said frame, is from two to twenty.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tustaniwskyj et al (6,307,369 & 6,325,662 & 6,522,156 & 6,774,661 and 6,809,543), Rhodes et al (6,415,409), Ditri et al (6,581,486) and Babcock et al (6,658,736) disclose a method and apparatus for testing integrated chips.
- 9. Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. The following is a statement of reasons for the indication of allowable subject matter: regarding claim 8, the primary reason for the allowance of the claim is due to the fact that the prior art does not disclose signal generator means includes N digital state machine as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jermele M. Hollington whose telephone number is (571) 272-1960. The examiner can normally be reached on M-F (9:00-4:30 EST) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Tokar can be reached on (517) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jermele M. Hollington

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JMH

November 17, 2004